

10/725436

ABSTRACT OF THE DISCLOSURE



A constant voltage generating circuit which uses a band gap reference circuit to produce a constant voltage and which is effective at reducing driving voltage and noise. The voltage generating circuit has a plurality of first bipolar transistors including n first bipolar transistors, each having an emitter area. The voltage generating circuit also includes a plurality of second bipolar transistors including n second bipolar transistors. Each of the n second bipolar transistors has an associated emitter area greater than the emitter area of each of the plurality of the first bipolar transistors. The constant voltage generating circuit produces a constant output voltage that is independent of temperature and the number of first and second transistors.